

11 5'TG CAG CAG AGG GAG ACC CGC GGC AAC CCC GGC AAC CCA GGG CTC GGC GTC GCT 56
 65 GCC ACC ATG ACG GGA AGC AAT ATG TCG GAC GCC TTG GCC AAC GCC GTG TGC CAG 110
 M T G S N M S D A L A N A V C Q
 74 83 92 101
 119 CGC TGC CAG GCC CGC TTC TCC CCC GCC GAG CGC ATT GTC AAC AGC AAT GGG GAG 164
 R C Q A R F S P A E R I V N S N G E
 128 137 146 155
 173 CTG TAC CAT GAG CAC TGC TTC GTG TGT GCC CAG TGC TGC CGG CCC TTC CCC GAG 218
 L Y H E H C F V C A Q C F R P F P E
 182 191 200 209
 227 GGG CTC TTC TAT GAG TTT GAA GGC CGG AAG TAC TGC GAA CAC GAC TTC CAA ATG 272
 G L F Y E F E G R K Y C E H D F Q M
 236 245 254 263
 281 CTG TTT GCT CGC TGC TGT GGA TCC TGC GGT GAG TTC ATC ATT GGC CGC GTC ATC 326
 L F A P C C G S C G E F I I G R V I
 290 299 308 317
 335 AAG GCC ATG AAC AAC AAC TGG CAC CCG GGC TGC TGC CGC TGC GAG CTG TGT GAT 380
 K A M N N N W H P G C F R C E L C D
 344 353 362 371

FIGURE 1A

389	398	407	416	425	434
GTG GAG CTG GCT GAC CTG GGC TTT GTG AAG AAT GCC GGC AGG CAT CTC TGC CGG					
V E L A D L G F V K N A G R H L C R					
443	452	461	470	479	488
CCT TGC CAC AAC CGT GAG AAG GCC AAG GGC CTG GGC AAG TAC ATC TGC CAG CGG					
P C H N R E K A K G L G K Y I C Q R					
497	506	515	524	533	542
TGC CAC CTG GTC ATC GAC GAG CAG CCC CTC ATG TTC AGG AGC GAC GCC TAC CAC					
C H L V I D E Q P L M F R S D A Y H					
551	560	569	578	587	596
CCT GAC CAC TTC AAC TGC ACC CAC TGT GGT GAG GAG CTG ACA GCC GAG GCC CGC					
P D H F N C T H C G K E L T A E A R					
605	614	623	632	641	650
GAG CTG AAG GGT GAG CTC TAC TGC CTG CCC TGC CAT GAC AAG ATG GGC GTC CCC					
E L K G E L Y C L P C H D K M G V P					
659	668	677	686	695	704
ATC TGC GGG GCC TGC CGC CGG CCC ATC GAG GGC CGA GTG GTC AAC GCG CTG GGC					
I C G A C R R P I E G R V V N A L G					
713	722	731	740	749	758
AAG CAG TGG CAC GTG GAG CAC TTT GTC TGT GCC AAG TGT GAG AAG CCA TTC CTG					
K Q W H V E H F V C A K C E K P F L					

FIGURE 1B

767	GGG CAC CGG CAC TAT GAG AAG AAG GGC CTG GCC TAC TGC GAG ACT CAC TAC AAC	794	803	812
	G H R H Y E K K G L A Y C E T H Y N			
821	CAG CTC TTC GGG GAC GTC TGC TAC AAC TGC AGC CAT GTG ATT GAA GGC GAT GTG	848	857	866
	Q L F G D V C Y N C S H V I E G D V			
875	GTG TCG GCC CTC AAC AAG GCC TGG TGT GTG AGC TGC TTC TCC TGC TCC ACC TGC	902	911	920
	V S A L N K A W C V S C F S C S T C			
929	AAC AGC AAG CTC ACC CTG AAG AAC AAG TTT GTG GAG TTC GAC ATG AAG CCC GTG	956	965	974
	N S K L T L K N K F V E F D M K P V			
983	TGT AAG AGG TGC TAC GAG AAG TTC CCG CTG GAG CTG AAG AAG CGG CTG AAG AAG	1001	1010	1028
	C K R C Y E K F P L E L K R L K K			
1037	CTG TCG GAG CTG ACC TCC CGG AAG GCC CAG CCC AAG GCC ACA GAC CTC AAC TCT	1055	1064	1082
	L S E L T S R K A Q P K A T D L N S			
1091	GCC TGA AGG CCC TCT TGC GCA CTG CCT CTC GGC CCC TCC GCC TTC TCC CCT CCT	1109	1118	1136
	A			

FIGURE 1C

1145	1154	1163	1172	1181	1190
GCT GTC CAT	GCT TGG CCC	CCT CGT CCC	CAT CCA CCT	GTG CCC TCC	GCA TCT TAC
1199	1208	1217	1226	1235	1244
CCT CCC TTT	CTC CTT CTT	CAT TGC CTT	CTC CCT TCC	TGT TCC CTC	ATC TCT GCC
1253	1262	1271	1280	1289	1298
TTC CCC ATG	TCT CTC CTC	TCC TTG GCC	GTG GCT TCT	GTC TGT GAG	GAG GCA GGA
1307	1316	1325	1334	1343	1352
GCT GGG GAG	TGG GAG CCT	ATG ACC CCA	CGT CTG ACA	GCC ATG TCC	ACC TGT GCC
1361	1370	1379	1388	1397	1406
CAC AGC TTC	CGC CCA CAG	ACC TCC AGG	GAC AGG AGC	AAA TTG CAC	CAC AGC TCC
1415	1424	1433	1442	1451	1460
CCG CCT GGC	CTG GCC CTC	CCC AGG CGG	CTC AGT GGC	TCA TGC TGT	CCT GTG AGA
1469	1478	1487	1496	1505	1514
GCC CCT GCC	CCA GAG CGG	CCC CAC TAA	GCG CAT GTG	GCT CCT GGG	CTA CCC ACA
1523	1532	1541	1550	1559	1568
GCC AGG GCA	GCC TGC TGG	AGC CAC AGG	GCC AGG CCT	ATG CAG ATG	GAG GCC TCT
1577	1586	1595	1604	1613	1622
GGG AGC CAC	CTC CAA TCC	CTC ACC ACT	CAC TCA ACC	AGT GGC	ACA GTG TCC
1631	1640	1649	1658	1667	1676
TGC CCA CAC	TGA GCC AGC	AAG TCC TGC	TGT CCA CAC	CAA GCT	ACC TGG AGG

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1685	GAC	AGG	ACC	CAC	CTC	CAT	CCT	TCG	GAA	GGC	CTT	CCT	GGA	ATC	CCA	CCT	TGG	CCT	1730
1694																			
1739	CCG	CCC	TCG	GTT	CCG	CCC	CGC	CCC	TCT	CCC	CCC	GAC	CTT	GGG	GCT	TGT	GTC	GAG	1784
1748																			
1793	CCC	TTG	GGT	GGG	GCC	AGG	AGG	AGG	TGA	TGG	CGT	CAG	AGG	AGG	TGT	GGT	CAG	AGG	1838
1802																			
1847	TGA	CTT	GTT	CCC	ACC	TCC	AGG	GAG	GAC	GCT	TCG	TCT	TCG	GCC	AGC	GCA	GAC	CTG	1892
1856																			
1901	GTG	TTT	GTT	TGT	TTG	TTG	GGT	CAC	GCT	TGC	ACA	ATG	AAG	GCT	TGT	TCA	CAC	AAA	1946
1910																			
1955	AAA	AAA	AAA	AAA	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

FIGURE 1E

1	M	T	G	S	N	M	S	D	A	L	A	N	A	V	C	Q	R	C	Q	A	R	F	S	P	A	E	R	I	V	N	3540806
1	-	-	-	-	-	M	A	N	A	L	A	S	A	T	C	E	R	C	K	G	G	F	A	P	A	E	K	I	V	N	GI 516012
31	S	N	G	E	L	Y	H	E	H	C	F	V	C	A	Q	C	F	R	F	F	P	E	G	L	F	Y	E	F	E	G	3540806
26	S	N	G	E	L	Y	H	E	Q	C	F	V	C	A	Q	C	F	Q	F	P	E	G	L	F	Y	E	F	E	G	GI 516012	
61	R	K	Y	C	E	H	D	F	Q	M	L	F	A	P	C	C	G	S	C	G	E	F	I	I	G	R	V	I	K	A	3540806
56	R	K	Y	C	E	H	D	F	Q	M	L	F	A	P	C	H	Q	C	G	E	F	I	I	G	R	V	I	K	A	GI 516012	
91	M	N	N	N	W	H	P	G	C	F	R	C	E	L	C	D	V	E	L	A	D	L	G	F	V	K	N	A	G	R	3540806
86	M	N	N	S	W	H	P	E	C	F	R	C	D	L	C	Q	E	V	L	A	D	I	G	F	V	K	N	A	G	R	GI 516012
121	H	L	C	R	P	C	H	N	R	E	K	A	K	G	L	G	K	Y	I	C	Q	R	C	H	L	V	I	D	E	Q	3540806
116	H	L	C	R	P	C	H	N	R	E	K	A	R	G	L	G	K	Y	I	C	Q	K	C	H	A	I	I	D	E	Q	GI 516012
151	P	L	M	F	R	S	D	A	Y	H	P	D	H	F	N	C	T	H	C	G	K	E	L	T	A	E	A	R	E	L	3540806
146	P	L	I	F	K	N	D	P	Y	H	P	D	H	F	N	C	A	N	C	G	K	E	L	T	A	D	A	R	E	L	GI 516012
181	K	G	E	L	Y	C	L	P	C	H	D	K	M	G	V	P	I	C	G	A	C	R	R	P	I	E	G	R	V	V	3540806
176	K	G	E	L	Y	C	L	P	C	H	D	K	M	G	V	P	I	C	G	A	C	R	R	P	I	E	G	R	V	V	GI 516012
211	N	A	L	G	K	Q	W	H	V	E	H	F	V	C	A	K	C	E	K	P	F	L	G	H	R	H	Y	E	K	K	3540806
206	N	A	M	G	K	Q	W	H	V	E	H	F	V	C	A	K	C	E	K	P	F	L	G	H	R	H	Y	E	R	K	GI 516012
241	G	L	A	Y	C	E	T	H	Y	N	Q	L	F	G	D	V	C	Y	N	C	S	H	V	I	E	G	D	V	V	S	3540806
236	G	L	A	Y	C	E	T	H	Y	N	Q	L	F	G	D	V	C	F	H	C	N	R	V	I	E	G	D	V	V	S	GI 516012

FIGURE 2A

271	A	L	N	K	A	W	C	V	S	C	F	S	C	S	T	C	N	S	K	L	T	L	K	N	K	F	V	E	F	D	3540806	
266	A	L	N	K	A	W	C	V	N	C	F	A	C	S	T	C	N	T	K	L	T	L	K	N	K	F	V	E	F	D	GI 516012	
301	M	K	P	V	C	K	R	C	Y	E	K	F	P	L	E	L	K	K	R	L	K	K	L	S	E	L	T	S	R	K	3540806	
296	M	K	P	V	C	K	K	C	Y	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	I	S	I	G	GI 516012
331	A	Q	P	K	A	T	D	L	N	S	A	3540806																				
310	A	E	E	K	T	GI 516012																										

FIGURE 2B